Problem Management Enhancements

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Problem Management and Related Processes

➢ Three distinct yet integrated processes

- **Initial findings**

- **Incident root cause analysis (RCA)**

- **Problem management**

Initial Findings

- Incident management activity

- Initial findings, which are completed within 24 business hours after incident resolution, are provided for all severity 1 and 2 incident tickets

- Initial findings document the cause(s) of the incident – providing the customer an explanation of the incident

- When the root cause of the an incident or incidents is unknown, a problem record is opened for further investigation

VITA NORTHROP GRUMMAN

Severity 1 & 2 Initial Findings Report
DGS

Report contains incident information with completed initial findings

Incident Number:	IM950582	Severity Level:	1
Open Time:	1/29/2011 9:47:18PM	Resolved Time:	1/30/2011 12:31:36AM
Category:	server-va	Sub-Category:	system status
Product Type:	unix	Problem Type:	production support
Cause Code:	Service Request	Resolution Code:	Cleared-No Trouble Found
Affected CI:	CVASV-CR63Q71	Assignment:	SERVERSERVICES-371/373
CI Type:	computer	CI sub Type:	Server
Location:	1107	City:	Chester
Address:	11751 Meadowville Lane	Zip Code:	23836

| | | | | Agency Code: | 194 |

Incident Details

Brief Description:	(DGS) Server :- ORACLE5 server is down.
Initial Findings:	DGS developer initiated restart of server. Server stopped during rest art sequence because of a hardware issue with drive 0. Drive 0 was re seated which cleared the hardware error. Server was then allowed to c ontinue to boot normally. Services were verified after server complet ed boot up.
Resolution:	01/30/11 00:31:36 (david.din@ngc.com): Drive 0 had an amber light indicating a hardware issue. Drive was reseated which cleared the hardware error. Drive light turned green. Restarted server. Engineer verified that all services were working fine.

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Incident Root Cause Analysis (RCA)

- Incident management activity

- Initiated by the agency or management for major incidents or outages

- Revised incident RCA form has been created

  - Provides incident details, root cause and corrective actions to prevent recurrence

  - Sequence of events or timeline to understand the relationships between the event and root cause(s) to prevent recurrence

- The *targeted goal* is to deliver "customer ready" RCA within eight business days

Problem Management

- Problem management process is to identify and eliminate the unknown underlying cause of one or more incidents

- When does this occur?

  - **Reactive - identifying the underlying causes of incidents in order to prevent future recurrences**

  - **Proactive - activities that identify and resolve problems before incidents occur by utilizing trending and predictive analysis**

- Detailed investigation to identify workarounds and permanent resolution of problems within the infrastructure

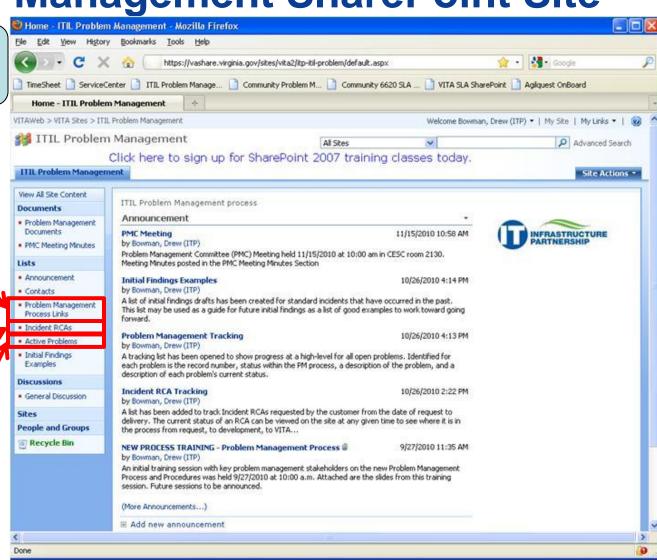- Output of problem management is a known error record and/or a change request to eliminate the problem

Problem Management SharePoint Site

Problem ticket information is available to AITRs and ISOs

Links to problem management process info

Status tracking for open RCAs
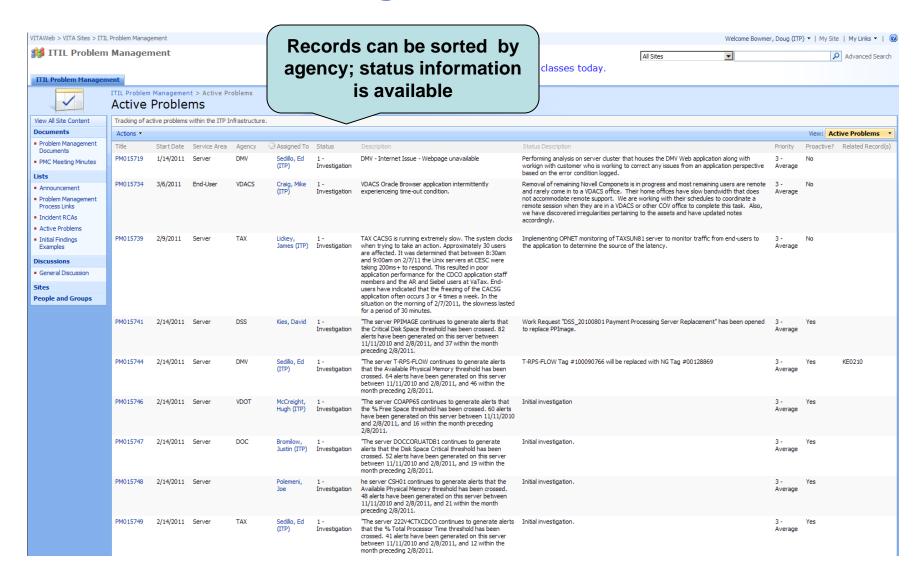
Status tracking for active problems

Problem Management SharePoint Site

Questions?

Problem Management SharePoint Site:
https://vashare.virginia.gov/sites/vita2/itp-itil-problem/Lists/Active%20Problems/Active%20Problems.aspx